Date: Fri, 21 Jan 94 04:30:02 PST
From: Packet-Radio Mailing List and Newsgroup <packet-radio@ucsd.edu>
Errors-To: Packet-Radio-Errors@UCSD.Edu
Reply-To: Packet-Radio@UCSD.Edu
Precedence: Bulk
Subject: Packet-Radio Digest V94 #7
To: packet-radio

Packet-Radio Digest Fri, 21 Jan 94 Volume 94 : Issue 7

Today's Topics:
returned mail -- invalid userid

Send Replies or notes for publication to: <Packet-Radio@UCSD.Edu>
Send subscription requests to: <Packet-Radio-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Packet-Radio Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/packet-radio".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 20 Jan 94 12:57:54 GMT
From: news-mail-gateway@ucsd.edu
Subject: returned mail -- invalid userid
To: packet-radio@ucsd.edu

The following message did not contain a valid DESY userid.
Since we were not able to identify the correct userid, the message will
be returned to you.
Please check your address list and try again with the correct userid.
It would be helpful to supply the full name of the addressee.

---------- text of the message with invalid userid follows ----------

> Received: from ucsd.edu by Sdsc.Edu (sds.sdsc.edu STMG) via INTERNET;
> Wed, 19 Jan 94 13:49:57 GMT
> Received: from localhost by ucsd.edu; id EAA22412
> sendmail 8.6.4/UCSD-2.2-sun
> Wed, 19 Jan 1994 04:30:04 -0800 for packet-radio-list
> Errors-To: packet-radio-relay@UCSD.EDU
> Sender: packet-radio-relay%UCSD.EDU@Sdsc.BITnet
> Precedence: List
> Received: from localhost by ucsd.edu; id EAA22390

> sendmail 8.6.4/UCSD-2.2-sun
> Wed, 19 Jan 1994 04:30:03 -0800 for packet-radio-ddist
> Message-Id: <199401191230.EAA22390@ucsd.edu>
> Date: Wed, 19 Jan 94 04:30:01 PST
> From: packet-radio%UCSD.EDU@Sdsc.
> BITnet (Packet-Radio Mailing List and Newsgroup)
> Errors-To: Packet-Radio-Errors@UCSD.EDU
> Reply-To: Packet-Radio%UCSD.EDU@Sdsc.BITnet
> Precedence: Bulk
> Subject: Packet-Radio Digest V94 #5
> To: packet-radio%UCSD.EDU@Sdsc.BITnet
>
>
> Packet-Radio Digest Wed, 19 Jan 94 Volume 94 : Issue 5
>
> Today's Topics:
> Higher Speeds with the G3RUH 9600 baud Packet Radio Modem
>
> Send Replies or notes for publication to: <Packet-Radio@UCSD.Edu>
> Send subscription requests to: <Packet-Radio-REQUEST@UCSD.Edu>
> Problems you can't solve otherwise to brian@ucsd.edu.
>
> Archives of past issues of the Packet-Radio Digest are available
> (by FTP only) from UCSD.Edu in directory "mailarchives/packet-radio".
>
> We trust that readers are intelligent enough to realize that all text
> herein consists of personal comments and does not represent the official
> policies or positions of any party. Your mileage may vary. So there.
> --
>
> Date: 18 Jan 94 19:42:35 GMT
> From: news-mail-gateway@ucsd.edu
> Subject: Higher Speeds with the G3RUH 9600 baud Packet Radio Modem
> To: packet-radio@ucsd.edu
>
> $RUH93235
>
> Higher Speeds with the G3RUH 9600 baud Packet Radio Modem
> ----------
> by James Miller G3RUH
>
> 1993 Aug 23
>
> The modem is capable of speeds up to 64000 baud. This limit is set by the
> maximum rate that the DAC chips can operate. This note describes how to
> achieve rates from 4800 to 64000 baud. The slowest speed is suitable for
> 12.5 kHz channelised radios. The highest speed suits radios that have
> broadcast FM bandwidth filters.

>
> To implement a higher speed you need to:
>
> 1. Increase your TXData rate (!)
> 2. Increase the associated TXClock
> 3. Change some analogue filter components proportional to
>   the speed increase.
>
> It is not necessary to change either of the eproms. If you are going
> for a higher speed, it is likely that the radios involved are "specials"
> and you will already have wide bandwidth and flattish group delay, so the
> loopback selection 0 from the standard ROM will be OK.
>
> The table below suggests the best conditions for different speeds.
> Component references are for my own PCB card. Clones are different.
>
>   Data Rate - Baud
> Comp   4800   9600   19200   38400   64000
> --
> R6   220k   100k   47k   22k   15k
>
> R16   100k   100k   100k   47k   15k
> R17   82k   82k   82k   39k   12k
> R18   39k   39k   39k   18k   5k6
> R19   27k   27k   27k   15k   3k9
> R21   100k   100k   100k   47k   15k
> R22   56k   56k   56k   27k   8k2
>
> C18   4n7   4n7   4n7   1n   680p
> C20   220p   100p   47p   22p   12p
>
> C27   2n2   1n   470p   470p   1n   )
> C28   2n2   1n   470p   470p   1n   )
> C29   6n8   3n3   1n5   470p   470p   ) 2% or
> C30   220p   100p   47p   47p   100p   ) better
> C31   1n   470p   220p   220p   470p   )
> C32   2n2   1n   470p   220p   150p   )
> --
> Deviation +/- 1.5   3   6   12   20 kHz) In FM
> IF Bandwidth   8   15   30   60   100 kHz) service
> --
>
> These modifications have been tested in both amateur and commercial
> service. All comments gratefully received, and added to the database.
>
>
> 73 de James G3RUH @ GB7DDX.#22.GBR.EU   1993 Aug 23 [Mon] 0917 utc
>

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>
> End of Packet-Radio Digest V94 #5
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End of Packet-Radio Digest V94 #7
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